

HP OpenVMS Common Internet File System (CIFS) Based on Samba

Release Notes

Evaluation Version: E3.0.10

Operating System: OpenVMS Alpha Version 8.2



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Preface

The HP OpenVMS CIFS software kit release notes includes information about the distribution kit, known problems and limitations.

Intended Audience

This guide is written for OpenVMS system managers and network administrators.

Document Structure

This guide is organized as follows:

- Section 1, contains information about HP OpenVMS CIFS software kit.
- Section 2, contains information specific to HP OpenVMS CIFS Software.
- Section 3, describes the known problems in HP OpenVMS CIFS Version E3.0.10.
- Section 4, describes the limitations in HP OpenVMS CIFS Version E3.0.10.

Related Documents

For more information about HP OpenVMS CIFS software, refer to the following URL:

<http://www.samba.org>

1. Distribution Kit

The HP OpenVMS CIFS software kit supports OpenVMS Alpha systems. The kit name is:

HP-AXPVMS-SAMBA-E0300-10-1.PCSI\$COMPRESSED

1.1. Disk Space Requirement

The HP OpenVMS CIFS PCSI kit requires approximately 30000 blocks of working disk space to install.

2. Information Specific to HP OpenVMS CIFS Software

- The HP OpenVMS CIFS software installation expects a clean and pristine environment, there should not be any CIFS related user accounts in authorize database and the installation destination folder must be clean.
- Default account (SAMBA\$TMPLT) can be used to populate OpenVMS user accounts for CIFS.
- HP OpenVMS CIFS software supports ODS-5 disks.
- You change the password by entering the following command:

```
$ NET RAP PASSWORD <user> <oldpass> <newpass> --user  
<user>%<password>
```

Alternatively, you can change the password from the Windows client.
- While adding new users to OpenVMS, ensure that the UIC is unique, "ADD_IDENTIFIER" qualifier is used, and the user is created with NODISUSER flag set.
- During installation, SAMBA\$SMBD, SAMBA\$NMBD, SAMBA\$TMPLT and SAMBA__GUEST accounts created on OpenVMS. These accounts are internal to CIFS. The users are advised not modify/change any attributes for these accounts.
- Whenever path for any share is omitted in the SMB.CONF file, the default path selected by CIFS will be SAMBA_ROOT:[TMP]

For example,

```
[test1]  
comment = Home Directories  
browseable = yes  
read only = no  
create mode = 0750
```

In this case, path is not mentioned and test1 will point to the directory SAMBA_ROOT:[TMP].

- The printer functionality is tested only on the following environments:
 - Windows 2K/XP clients only with static IP/DNS settings and "Enable NetBIOS over TCPIP" option
 - Generic "plain text" Print Drivers
 - HP LaserJet 8150 PS Print Driver
 - HP LaserJet 8100 PS Print Driver

2.1. How to Build CIFS Sources on OpenVMS

To build the CIFS sources on OpenVMS, follow these steps:

1. Extract the sources provided with Samba PCSI from CIFSE3010_SRC.BCK to one of the directories on your disk.
2. Run Compile.com to compile the source files, during this process, .OBJ and .LIS files will be created in their respective source file directories.
3. After successful compilation, run LINK.COM to link the same. All executables will be placed in the .BIN directory.

Note: SAMBA\$BIN is a process wide logical that has to be defined pointing to the .BIN directory in the source directory before executing LINK.COM.

For example,

```
$ DEFINE SAMBA$BIN DKA0:[SAMBA.SOURCE.BIN]
```

3. Known Problems in HP OpenVMS CIFS Version E3.0.10

This section describes the known problems in HP OpenVMS CIFS software kit.

3.1. CIFS Utilities Crashes

Problem:

When the user executes CIFS utilities, it results in a crash.

Workaround:

Define DECC\$FILE_SHARING logical and set it to enable.

For example,

```
$ DEFINE DECC$FILE_SHARING "ENABLE"
```

3.2. Modifying the CIFS User's Password Using smbpasswd Utility

Problem:

smbpasswd utility cannot be used by the SYSTEM user to reset/modify the user password.

Workaround:

To change the password using SMBPASWD utility, SAMBA_ROOT identifier must be granted to SYSTEM account. For more details about creating or granting identifiers, refer to the HP OpenVMS System Manager's Manual.

3.3. smbpasswd Utility Crashes

Problem:

When an unprivileged user attempts to change the password by using smbpasswd utility, the utility crashes.

Workaround:

Currently unprivileged user can modify the password using NET RAP utility or Windows client "change password" method only.

3.4. Aborting the Product Removal Procedure

Problem:

Pressing Ctrl+Y to abort a product removal procedure removes the product.

Workaround:

Enter "Y" or "N" at the following prompt to avoid this problem. This will be fixed in the next release.

3.5. "The Network Name cannot be Found" Error

Problem:

"The network name cannot be found" is a common error and can be due to one of the following misconfigurations:

- Non-existing path specified for the share in smb.conf.
- The user you are trying to access the share does not have sufficient permissions to access the path for the share. Both read (r) and access (w) should be possible.
- The share you are trying to access may not exist.

3.6. Accessing Shared Files

Accessing shared files at the same time fails in the following scenario. The table lists the activities of Client A corresponding to Client B, but Client A's activity precedes that of Client B's

Client A	Client B
Connects to the share	Connects the same share
No activity done	Opens the file (MS Office documents)
Opens the same file but the read-only dialog box is not displayed, which is necessary for file-synchronization	

In the above scenario, when the file is opened by Client A first and then by Client B, there is proper file-synchronization and a message is displayed that the file can be opened for read-only.

4. Limitations in HP OpenVMS CIFS Version E3.0.10

This section describes the limitations in HP OpenVMS CIFS software kit. The limitations that are applicable to Samba on OpenVMS I64 are also applicable to Samba on OpenVMS Alpha.

- HP OpenVMS CIFS software will be supported on OpenVMS Alpha Version 8.2. There will not be any upgrade/downgrade support from/to HP OpenVMS CIFS software V2.2.12.
- ODS-2 support will be provided only for ODS-2 type file names.
- External Authentication is not supported.
- Expected performance degradation with increased number of connections.
- ACL's will not be honoured.
- CIFS server can only become a Domain Controller in its own domain but can exist as member servers in other domains.
- Creating a new document or folder on ODS-2 disk by right clicking displays an error message that the document or folder you are creating does not adhere to ODS-2 file type.
- Group information from ASV will not be migrated.
- The configurable parameter "security" should be set as mentioned below for the member server functionality to work properly.

For example, security = user

- Adding new users to OpenVMS, must have an UNIQUE UIC and ADD_IDENTIFIER qualifier and flag set to NODISUSER.
- Some of the CRTL function depends on DECC\$FILE_SHARING logical definition to behave in the UNIX way. So this logical needs to be enabled for proper functioning of these CRTL APIs. This restriction will be removed in future release of HP OpenVMS CIFS software.
- SAMBA_ROOT identifier gets checked during smbpasswd program execution by SYSTEM user. This limitation will be taken care during future releases.
- smbpasswd is to be used by "System Administrator" to change/manage all CIFS users. The unprivileged user's execution of this utility crashes currently, which will be fixed later.
- The Samba unprivileged user does not have the terminal access (we have made this user non-interactive unlike in Linux Samba). So this unprivileged user cannot execute any of the utilities explicitly from the command prompt. These users ONLY have either UNC path or Map drive access to HP OpenVMS CIFS from Windows client. Currently if this unprivileged user executes any CIFS utilities through the terminal (by explicitly enabling terminal access to these user) there will be problems/crashes that we have not tested yet, which we will plan to look at it later. The user who already have the access to VMS systems can change the password by entering the following command:

```
$ NET RAP PASSWORD <user> <oldpass> <newpass> --user  
<user>%<password>
```

- pdbedit is a privileged user's utility, and should be used by a privileged user to manage the SAM database.
- Service parameter "printing" is always set to "VMS" as HP OpenVMS CIFS supports "VMS" style of printing.

- Service parameter “Load printers” is always set to “NO” as the “auto loaded” printer functionality is not used on OpenVMS, that is, it does not support Cups Printing.
- Print cap file is not supported on CIFS; hence this parameter can be set as “VMS”.
- The “Add printer wizard” option used to upload printer driver onto CIFS is not supported with this release.
- The oplock feature on HP OpenVMS CIFS does not work as expected.